

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Canan Uslu Hardwicke et al.

Group Art Unit:

Serial No.:

Examiner:

Filed:

For METHOD FOR FORMING A FLOW DIRECTOR  
ON A HOT GAS PATH COMPONENT

## INFORMATION DISCLOSURE STATEMENT

- ☒ 1 **Pursuant to 37CFR 1.97(b)**  
[within 3 months of national, non-CPA filing or prior to 1st Office Action] *no charge*
- ☐ 2 **Certification Pursuant to 37 CFR 1.97(c)(1)**  
[before Final Office Action, Allowance, or other action closing prosecution] *no charge*
- ☐ 3 **Fee Payment Pursuant to 37 CFR 1.97(c)(2)**  
[before Final Office Action, Allowance, or other action closing prosecution] *\$180.00*
- ☐ 4 **Certification & Fee Payment Pursuant to 37 CFR 1.97(d)**  
[On or before issue fee payment] *\$180.00*

ATTN: BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98:

- ☒ 5 A list of documents on form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below.

\_\_\_\_\_  
Date of Deposit\_\_\_\_\_  
Type or Print Name\_\_\_\_\_  
Signature

This paper is submitted in accordance with:

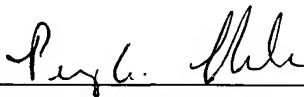
- ☒ 6 37 CFR 1.97(b): [within 3 months of national, non-CPA filing or prior to 1st Office Action]
- ☐ 7 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- ☐ 8 The required Certification made in item 11 below; or
- ☐ 9 The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 15 below.
- ☐ 10 37 CFR 1.97(d): [on or before issue fee payment]; and
- a) The required Certification is stated in item 11 below; and
- b) The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.
- ☐ 11 Certification
- ☐ 12 Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- ☐ 13 No item contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.
- ☒ 14 Payment of all applicable fees:
- ☒ 15 Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 07-0868

An original and two (2) copies of this document are enclosed.

Respectfully submitted,

June 27, 2003  
Date

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FORM PTO-1449  
(REV. 7-80)  
(Title Amended 3/83)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

121278-1

SERIAL NO.

Applicant

Canan Uslu Hardwicke et al.

Filing Date

Group

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT--

LIST OF ITEMS

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER								DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6	3	8	3	6	0	2	05/07/02	Fric et al.			
	AB	6	3	6	8	0	6	0	04/09/02	Fehrenbach et al.			
	AC												
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
														YES	No
	AL														
	AM														
	AN														
	AO														
	AP														

## OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

	AR	Patent Application, Canan U. Hardwicke et al., Serial Number 10/065,816, filed November 22, 2002, Docket Number 120365-1.
	AS	Ronald S. Bunker, "Film Cooling Effectiveness due to Discrete Holes within a Transverse Surface Slot," IGTI Turbo Expo Int, Gas Turbine Conference and Exposition, June 3-6, 2002, Amsterdam, GT-2002-30178, pp. 1-10.
	AT	Masir Hasan et al., "Film Cooling from a Single row of Cylindrical Angled Holes with Triangular Tabs having different Orientations," ASME Turbo Expo 2001, June 4-7, 2001, New Orleans, Louisiana, USA, 2001-GT-0124, pp. 1-8.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449  
(REV. 7-80)  
(Title Amended 3/83)

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	BA					
	BB					
	BC					
	BD					
	BE					
	BF					
	BG					
	BH					
	BI					
	BJ					
	BK					

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							YES	No
	BL							
	BM							
	BN							
	BO							
	BP							

## OTHER INFORMATION (Including Author, Title, Date, Pertinent pages. Etc.)

	BR	D. G. Hyams et al., "A Detailed Analysis of Film Cooling Physics: Part III-Streamwise Injection with Shaped Holes," ASME, Volume 122, January 2000, pp. 122-132.
	BS	
	BT	

EXAMINER

DATE CONSIDERED

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